From the INTERNATIONAL BUREAU

SEP 2 1 2005 To:

BLAKELY, SOKOLOFF, TAYEOR & ZAFMAN LLP

NOTIFICATION CONCERNINGLOS ANGELES TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis.1(c))

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Date of mailing (day/month/year) 15 September 2005 (15.09.2005)

Applicant's or agent's file reference 7134/AGS/IBSS

IMPORTANT NOTICE

International application No. PCT/US2004/003595 International filing date (day/month/year) 05 February 2004 (05.02.2004) Priority date (day/month/year) 01 March 2003 (01.03.2003)

Applicant

APPLIED MATERIALS, INC. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

> The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Philippe Becamel

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 7134/AGS/IBSS	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/US2004/003595	International filing date (day/month/year) 05 February 2004 (05.02.2004)	Priority date (day/month/year) 01 March 2003 (01.03.2003)]			
International Patent Classification (IPC) or national classification and IPC 7 G05B 19/418					
Applicant APPLIED MATERIALS, INC.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 9 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				

	Date of issuance of this report 02 September 2005 (02.09.2005)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Philippe Becamel
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PATENT COOPERATION TREATY

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	form PCT/ISA/22			See paragraph 2 belo			
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1.	This opinion co	ntains indicat	ions relating to the fol	lowing items:			
	☑ Box No. I	Basis of the o	pinion				
	Box No. II	Priority					
	☐ Box No. III	Non-establish	ment of opinion with reg	gard to novelty, inventive step and industrial applicability			
	☐ Box No. IV	Lack of unity	of invention				
			s.1(a)(i) with regard to as supporting such sta	novelty, inventiv tement	ve step or in	ıdustrial	
	applicability, citations and explanation Box No. VI Certain documents cited			,,,			
}	☐ Box No. VII		ts in the international ap	application			
	☐ Box No. VIII		vations on the internatio				
2.	FURTHER ACT	ION					
			eliminary examination is	made, this opinion wi	Il usually be con:	sidered to b	ea _.
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/003595

	Box N	o. I Basis of the opinion	
1.	With re	gard to the language , this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.	
	laı (u	is opinion has been established on the basis of a translation from the original language into the following aguage , which is the language of a translation furnished for the purposes of international search and Rules 12.3 and 23.1(b)).	
2.	With re	gard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:	
	a. type	of material:	
		a sequence listing	
		table(s) related to the sequence listing	
b. format of material:			
		in written format	
		in computer readable form	
	c. time	e of filing/furnishing:	
		contained in the international application as filed.	
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority for the purposes of search.	
3	h	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.	
4	. Addit	onal comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/003595

	Box	No. II	Priority		·		
1.			lowing document has no	ot beer	furnished:		
••	_					ity has been claimed (Rule 43bis.1 and 66.7(a)).	
						priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).	
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.						
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.	3. Additional observations, if necessary:						
	Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.		tement					
	No	velty (N)	1	Yes: No:	Claims Claims	1-16, 21-37, 42, 44 17-20, 38-41, 43, 45	
	lnv	entive s	tep (IS)	Yes: No:	Claims Claims	1-45	
	Ind	lustrial a	pplicability (IA)	Yes: No:	Claims Claims	1-45	

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING **AUTHORITY (SEPARATE SHEET)**

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The examination is being carried out on the following application documents:

Description, pages:

1-24

as originally filed

Claims, No.:

1-45

as originally filed

Drawings, sheets:

1/6-6/6

as originally filed

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1)

D1: US-B-6 470 227

D2: XP002284232

- The present application does not meet the criteria of Article 33(1) PCT, because the 2) subject-matter of claims 17, 38, 43 and 45 is not new in the sense of Article 33(2) PCT.
- 2.1) The document **D1** discloses (the references in parentheses applying to this document):
 - A method of storing information in a database to characterize attributes outputted by different classes of equipment (column 7 lines 5-16 & column 10 lines 13-19) comprising the steps of:
 - providing a database memory device (column 7 lines 15-16)
 - storing in the database memory device a plurality of attribute data records (column 9 lines 58-65)

the step of storing each attribute data record includes:

- storing in that record a first field identifying a class of equipment (column 9 lines 58-65)
- storing in that record a second field identifying an attribute whose value is outputted

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by the class of equipment identified by the first field of that record (column 9 lines 58-65 and column 10 lines 13-19)

- storing in that record a third field specifying a conversion parameter that defines a conversion of the value of the attribute identified in the second field into physical units of measurements

(implicitly disclosed, as the method of **D1** is used in a semiconductor fabrication process in which monitoring is an essential part. Therefore a conversion parameter has to be included in the configuration database of D1 to interpret the attributes.)

Therefore the subject-matter of claim 17 is considered not new.

2.2) The subject-matter of the independent claim 38 corresponds in terms of an apparatus to that of claim 17 differing in that a diagnostic apparatus for monitoring electronic equipment, a computer-readable data storage device and a computer connected to read data from the storage device are included.

As the apparatus of **D1** controls and monitors equipment in a semiconductor fabrication process (see Figure 1 and column 8 lines 30-47) the apparatus of D1 functions also as a diagnostic apparatus for monitoring electronic equipment. The further additional features, concerning the data storage device and the computer, are also included in D1: (see column 5 lines 6-12).

Therefore the subject-matter of claim 38 is also considered not new.

- 2.3) The subject-matter of the independent claims 43 and 45 corresponds in terms of a data storage medium to that of claims 38 and 17 respectively. The same reasoning applies, mutatis mutandis, to the independent claims 43 and 45 which therefore are also considered not new.
- 3) The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 21, 42 and 44 does not involve an inventive step in the sense of Article 33(3) PCT.
- 3.1) The subject-matter of the independent claim 1 differs from that of claim 17 insofar as the

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third field specifies an ID, assigning the class of equipment identified by the first field to the attribute value of the second field, instead of specifying a conversion parameter.

As explained under 2.1 **D1** is regarded as being the closest prior art to the subject-matter of claim 1 from which it differs in that:

the step of storing a third field - specifying an ID which the class of equipment identified by the first field of the record assigns to the attribute value identified by the second field of the record - is added

The problem to be solved by the present invention may therefore be regarded as to provide a method of assigning the information stored in a first field to that stored in a second field.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons.

The feature of assigning an ID to an attribute is well known in the field of industrial fabrication (see e.g. paragraph "Attribute Identifier" in the chapter "DeviceNet Addressing" of document **D2** on page 2) and is therefore merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.

3.2) The subject-matter of the independent claim 21 corresponds in terms of an apparatus to that of claim 1 differing in that a diagnostic apparatus for monitoring electronic equipment, a computer-readable data storage device and a computer connected to read data from the storage device are included.

As explained under 2.2 all these additional features are disclosed in D1 and therefore the subject-matter of claim 21 is also considered not inventive.

3.3) The subject-matter of the independent claims 42 and 44 corresponds in terms of a data storage medium to that of claims 21 and 1 respectively. The same reasoning applies, mutatis mutandis, to the independent claims 42 and 44 which therefore are also considered not inventive.

- 4) Dependent claims 2-16, 18-20, 22-37 and 39-41 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows:
- 4.1) The additional feature, concerning the ID uniquely specifying the attribute, as claimed in claim 2 is known from D2: (see e.g. paragraph "Attribute Identifier" in the chapter "DeviceNet Addressing" on page 2), Article 33(3).
- 4.2) The additional feature, concerning the ID uniquely specifying a command, as claimed in **claims 3** and **4** is known from **D1**: (see e.g. column 10 lines 13-19), Article 33(3).
- 4.3) The additional feature, concerning a field identifying the position of a chamber, as claimed in **claim 5** is known from **D1**: (see e.g. Figure 1 and column 8 lines 38-43), Article 33(3).
- The additional feature, concerning the first field identifying a model or a version of the model of equipment, as claimed in claims 6 and 7 is known from D2: (see e.g. column 9 lines 58-65), Article 33(3).
- 4.5) The additional feature, concerning the first field being subdivided into two subordinate fields identifying model, version, range of versions, revision date or range of revision dates of the equipment, as claimed in claims 8-12 can not be considered as involving an inventive step for the following reason:

A skilled person confronted with that problem of different versions or revision dates of equipment models will adapt the database for different equipment of **D1**. Using subordinate fields is merely a straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed, Article 33(3).

4.6) The additional feature, concerning different classes of equipment - represented by different models or versions of models - being stored in different records of the

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

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database, as claimed in **claims 13** and **14** is a general functionality of a database and therefore implicitly disclosed in the database of **D1**, Article 33(3).

- 4.7) The additional feature, concerning the attribute being of a process performed in a semiconductor fabrication process chamber, as claimed in **claims 15** and **16** is known from **D1**: (see e.g. column 8 lines 30-33), Article 33(3).
- 4.8) The additional feature, concerning the conversion parameter specifying a physical unit, a scale factor or a range of physical values, as claimed in **claims 18-20** is implicitly disclosed in **D1** as explained under 2.1, Article 33(2).
- 4.9) The additional feature, concerning the communication interface, as claimed in **claim**22 is known from **D1**: (see e.g. 31, 33 in Figure 1), Article 33(3).
- 4.10) The additional features of claims 23-37 and 39-41 correspond in terms of an apparatus to that of claims 2-16 and 18-20 respectively. Therefore the same reasoning applies, mutatis mutandis, to the dependent claims 23-37 and 39-41.